

# Notice of Allowability

Application No.

10/718,330

Applicant(s)

ABDELQADER, ALI HASAN  
HAMDAN

Examiner

Robert J. Popovics

Art Unit

1724

## -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the Drawings filed on June 7, 2004.
2. ☒ The allowed claim(s) is/are 2-7 and 13.
3. ☒ The drawings filed on June 7, 2004 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All   b) ☐ Some\*   c) ☐ None   of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  6. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

### Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08),  
Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

### EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. T. R. Vigil on June 23, 2005.

The application has been amended as follows:

**Claim 13. (New) A diesel fuel purifier unit comprising:**

**an external body having a fuel inlet pipe for the introduction of contaminated diesel fuel, a purified diesel fuel outlet for the passage of a purified diesel fuel, and a drain outlet for the draining of accumulated contaminants, both said inlet and said purified diesel fuel outlet being situated in an upper portion of the external body;**

**a purification chamber encapsulated by said external body, said purification chamber having a barrier with a conical and a cylindrical portion;**

**a first wire filter surrounding the conical portion of said barrier;**

**a second wire filter filling a portion of an annular region between said cylindrical barrier portion and said fuel inlet pipe, said first and second wire filters dividing said purification chamber into a filtered region and unfiltered region;**

**a relief valve connected to an upper portion of the external body;**

**a heating element connected to a lower portion of the external body;**

**a water level sensor connectable to sound and light indicators at a cabin dashboard for detecting the level of accumulated contaminants; and**

**a drainvalve connected to the bottom of the external body at said drain outlet, to permit accumulated contaminants to be drained from the purification chamber;**

**wherein contaminated diesel fuel to be treated flows through the fuel inlet pipe to said conical portion, where the contaminated diesel fuel comes into contact with said heater and is permitted to settle by gravity into a diesel fuel stream and a contaminant layer, said diesel fuel stream then passing through one of said first and second wire filters to said purified diesel fuel outlet.**

In claims 2,3,5 and 7, line 1; "claim 1" was changed to --claim 13--

Art Unit: 1724

In claim 6, line 3; "or any appropriate method" was deleted.

Claims 1 and 8-12 were deleted.

#### **In the Specification**

The following was inserted between lines 3 and 4 of page 3:

**According to another aspect of the invention, there is provided a diesel fuel purifier unit having an external body having a fuel inlet pipe for the introduction of contaminated diesel fuel, a purified diesel fuel outlet for the passage of a purified diesel fuel, and a drain outlet for the draining of accumulated contaminants, both said inlet and said purified diesel fuel outlet being situated in an upper portion of the external body; a purification chamber encapsulated by said external body, said purification chamber having a barrier with a conical and a cylindrical portion; a first wire filter surrounding the conical portion of said barrier; a second wire filter filling a portion of an annular region between said cylindrical barrier portion and said fuel inlet pipe, said first and second wire filters dividing said purification chamber into a filtered region and unfiltered region; a relief valve connected to an upper portion of the external body; a heating element connected to a lower portion of the external body; a water level sensor connectable to sound and light indicators at a cabin dashboard for detecting the level of accumulated contaminants; and a drainvalve connected to the bottom of the external body at said drain outlet, to permit accumulated contaminants to be drained from the purification chamber; wherein contaminated diesel fuel to be treated flows through the fuel inlet pipe to said conical portion, where the contaminated diesel fuel comes into contact with said heater and is permitted to settle by gravity into a diesel fuel stream and a contaminant layer, said diesel fuel stream then passing through one of said first and second wire filters to said purified diesel fuel outlet.**

#### **In the Drawings**

Reference numerals shall be added to Figures 4A and 4B.

Art Unit: 1724

### Reasons for Allowance

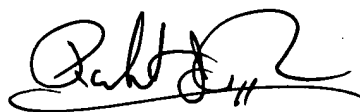
The following is an examiner's statement of reasons for allowance: the prior art of record fails to teach or fairly suggest a diesel fuel purifier including, in combination with all the other elements of the claim, a first wire filter surrounding the conical portion of said barrier and a second wire filter filling a portion of an annular region between said cylindrical barrier portion and said fuel inlet pipe, said first and second wire filters dividing said purification chamber into a filtered region and unfiltered region. The language added to the specification and the claims by the Examiner finds antecedent basis in the figures.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Robert J. Popovics whose telephone number is (571) 272-1164. The examiner can normally be reached on Monday through Friday between 2:00 PM and 6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Duane Smith can be reached on (571) 272-1166. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Robert James Popovics  
Primary Examiner  
Art Unit 1724

June 25, 2005